memorandum

DATE:January 31, 2007

REPLY TO

ATTN OF: NE-43

SUBJECT:

Office of Nuclear Energy Annual National Environmental Policy Act Planning Summary for Calendar Year 2007

TO: David R. Hill, General Counsel

In response to your December 12, 2006, request and in accordance with Department of Energy Order 451.1B, *NEPA Compliance Program*, attached is the Office of Nuclear Energy Annual National Environmental Policy Act (NEPA) Planning Summary for calendar year 2007.

This submittal was coordinated with the Idaho Operations Office and includes NEPA actions underway and planned at the Idaho National Laboratory. However, the Idaho Operations Office will submit directly a planning summary that addresses NEPA actions underway and planned for the entire Idaho National Laboratory Site, which includes Office of Environmental Management activities.

If you have any questions, please contact Michael Worley, Director for Integrated Safety and Program Assurance, at 903-2915, or Raj Sharma, Office of Nuclear Energy NEPA Compliance Officer, at 903-2899.

Dennis R. Spurgeon, Assistant Secretary

for Nuclear Energy

Attachment

Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Impact Statements

		Office	of Nuclear Energy	
			24-Jan-07	
*Title, Location	Estimated Cost			
Environmental Impact Statement for the Proposed Consolidation of Nuclear Operations Related to production of		Determination Date: NOI: Scoping:	11/16/2004	The proposed action is to consolidate nuclear operations related to production of radioisotope power systems for space and national security missions. These systems produce small amount of electrical power in remote harsh environments by
Radioisotope Power Systems		Draft Hearings Final	Jun-05 Jul-05	converting the decay heat from Pu-238 into electricity via static or dynamic power conversion systems. These power systems have enabled various space missions and important national security applications.
	\$3,050,000	ROD	Sep-07	
Programmatic Environmental Impact Statement for the Global Nuclear Energy		Determination Date: NOI:		Global Nuclear Energy Partnership (GNEP) would encourage expansion of domestic and international nuclear energy production while reducing nuclear proliferation risks,
Partnership		Scoping: Draft	Feb-Mar 2007 Jul-07	and reduce the volume, thermal output, and radiotoxicity of spent nuclear fuel (SNF) before disposal in a geologic repository. GNEP involves a programmatic proposal to
		Hearings Final	Fall 2007 May-08	begin to recycle SNF and destroy the long-lived radioactive components of that spent fuel. Toward this end, GNEP includes project-specific proposals to construct and
				operate three facilities: (1) a nuclear fuel recycling center would separate the SNF into its reusable components and waste; (2) an advanced recycling reactor would destroy long-lived radioactive elements in the fuel while generating electricity; and (3) an advanced fuelcycle research facility would perform research into SNF recycling process and other aspects of advanced nuclear fuel cycles.
	\$5,800,000	ROD	Jun-08	
No Environmental Assessments are expected to be prepared in the next 12 months.				
No other Environmental Impact Statements are expected to be prepared in the next 24 months.				
			-	
**Evaluation of Site Wide EIS:				

Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Impact Statements

		Idaho C	perations Office	
	r—- · — — —		Jan-07	
*Title, Location	Estimated Cost		d Schedule	Description
Idaho High-Level Waste and Facilities		Determination Date:		The EIS presents an analysis of alternatives for the treatment and disposition
Disposition Environmental Impact Statement		NOI:		of calcine, sodium-bearing waste, and newly generated liquid waste. The EIS
(DOE/EIS-0287) - Idaho Nuclear Technology and		Scoping:	08/19-11/24/1997	also presents an analysis of closure alternatives for facilities related to the
Engineering Center on the Idaho National		Draft	1/21/00	High-Level Waste Program at the Idaho Nuclear Technology and Engineering
Laboratory		Hearings	2/7-3/2/2000	Center. The Draft EIS was approved on 12/13/99 and a Notice was published
				in the Federal Register on 1/21/2000. The Final EIS was approved 08/15/200
		Final	10/11/2002	and a Notice was published in the Federal Register on 10/11/2002.
			-	
			1st ROD 12/19/2005,	The 1st ROD was signed 12/13/2005 and issued in the Federal Register (FR)
			2nd ROD 11/29/2006,	on 12/19/2005. The 2nd ROD addressed Tank Farm Facility closure, was
			3rd ROD 12/31/2009F	signed 11/19/2006 and issued in the FR on 11/29/2006 in coordination with th
		,		Secretary's determination, NRC consultation, and under Section 3116 of the
	\$15,000,000	ROD	_	NDAA. The 3rd ROD will address HLW calcine disposition.
Supplement Analysis, Highly Enriched Uranium	_	Supplement Analysis:		DOE will prepare a Supplement Analysis to summarize the environmental
and Spent Nuclear Fuel Management		Determination Date:	Oct-07	impacts of the continued operation of H-Canyon and associated facilities to
				prepare HEU, and HEU recovered from spent nuclear fuel, for disposition.
				DOE would continue to use the H-Canyon facility to process SNF and HEU
				materials and blerid the HEU down to LEU for use as feedstock for fabrication
				of commercial nuclear fuel. The SA would also evaluate the impacts of the
				SRS - INL fuel swap. SRS is the lead Operations Office for this SA.
	\$ 40,000	Approval:	Jan-07	
Supplement Anaysis for the Treatment of		Supplement Analysis:		The proposed action is to ship both RH and CH TRU waste from small sites
Transuranic Waste at the Idaho National Laboratory and Transporataion of Transuranic Waste in TRUPACT-III Containers		Determination Date:	Mar-07	and the Hanford Site to the Idaho National Laboratory for treatment and
				characterization prior to shipment to WIPP. Carlsbad Field Office is the lead
	\$100.000	Approval:	Mar-07	for development of the SA.
	Total Estimated		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	Cost			
	\$15,140,000.00			

Annual NEPA Planning Summary Status of Ongoing NEPA Compliance Activities: Environmental Assessments

		Idaho C	Operations O	ffice		
*Title, Location	Estimated Cost	Estimated Schedule	(**NEPA	Description		
11110, 20041011	Estimated 003t	Milestones				
The Remote Treatment Project		Determination Date:	1/31/2001	The proposed action would provide heavily shielded facilities for sorting,		
		Transmittal to State:		characterizing, treating, and repackaging remote handled radioactive waste, including		
		EA Approval:		sodium contaminated components, presently stored at the Materials and Fuels		
	\$200,000	Decision		Complex.		
Consolidate and Expand Laboratory		Determination Date:		The proposed action would be to consolidate and expand existing laboratory and		
Operations at the Science and Technology		Transmittal to State:		business operations in a single geographic area at the Science and Technology		
Campus located in Idaho Falls, Idaho		EA Approval:		Campus located in Idaho Falls, Idaho to accommodate program growth and		
	\$75,000	Decision:	Feb-07	laboratory relocation.		
National Security Test Range	\$50,000	Determination Date:		The proposed action would develop a test range to allow for long-term testing of		
		Transmittal to State:		protection systems such as cameras, barriers, and fences. Testing would include the		
		EA Approval:	Feb-07	use of explosives.		
		Decision	Feb-07			
		Determination Date:				
		Transmittal to State:				
		EA Approval:				
		FONSI:				
		Determination Date:				
		Transmittal to State:				
		EA Approval:				
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		EA Approval:				
		FONSI:				
	Total Estimated					
	Cost					
	\$325,000.00					

Annual MEPA Planning Summary Environmental Impact Statements Expected to be Prepared in the Next 24 Months

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Annual NEPA Planning Summary Environmental Assessments Expected to be Prepared in the Next 12 Months

Idaho Operations Office

Jan-07

*Title, Location	Estimated Cost	Estimated Schedule (**NEPA Milestones)		Description	
Advanced Test Reactor Transfer Shuttle		Determination Date:	TBD	The proposed action would build a transfer shuttle, also called a	
Irradiation Facility at the Idaho National		Transmittal to State:		rabbit, for the Advanced Test Reactor that would allow for insertion	
Laboratory		EA Approval:		and removal of isotope production packages while the reactor is	
	\$50,000	Decision		operating.	
Treatment of Contact-Handled		Determination Date:	TBD	The proposed action would treat contact-handled transuranic waste	
Transuranic Waste, Idaho National		Transmittal to State:		currently located at the Radioactive Waste Management Complex for	
Laboratory Site		EA Approval:		eventual disposal.	
	\$100,000	Decision			
Low-Level Radioactive Waste		Determination Date:	TBD	The proposed action would provide safe, compliant, and reliable	
Disposition Project		Transmittal to State:		disposal of Idaho National Laboratory contact-handled and remote-	
		EA Approval:		handled low-level waste.	
	\$100,000	Decision			
		Determination Date:			
		Transmittal to State:			
		EA Approval:			
		Decision		<u> </u>	
		Determination Date:			
		Transmittal to State:			
		EA Approval:			
		FONSI:			
	Total Estimated				
	Cost				
	\$250,000.00)			